# In The Matter Of:

United States vs.
PFC Bradley E. Manning

# Vol. 6 June 12, 2013 UNOFFICIAL DRAFT - 6/12/13 Morning Session

Provided by Freedom of the Press Foundation

Min-U-Script® with Word Index

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1	VOLUME VI	
2	IN THE UNITED STATES ARMY	
3	IN THE UNITED STATES AGMI	
4	UNITED STATES	
5	VS.	
6	MANNING, Bradley E., PFC COURT-MARTIAL	
7	U.S. Army, xxx-xx-9504	
8	Headquarters and Headquarters Company,	
9	U.S. Army Garrison,	
10	Joint Base Myer-Henderson Hall,	
11	Fort Myer, VA 22211	
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16	The Hearing in the above-entitled matter was	
17	held on Wednesday, June 12, 2013, at 9:30 a.m., at Fort	
18	Meade, Maryland, before the Honorable Colonel	
19	Denise Lind, Judge.	
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21		

#### 1 DISCLAIMER

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This unedited, uncertified draft transcript may contain court reporting outlines that are not translated, notes made by the reporter for editing purposes, misspelled terms and names, word combinations that do not make sense, and missing testimony or colloquy due to being inaudible to the reporter.

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1	APPEARANCES:		
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3	ON	BEHALF OF GOVERNMENT:	
4		MAJOR ASHDEN FEIN	
5		CAPTAIN JOSEPH MORROW	
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7	ON	BEHALF OF ACCUSED:	
8		DAVID COOMBS	
9		CAPTAIN JOSHUA TOOMAN	
10		MAJOR THOMAS HURLEY	
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1	PROCEEDING,
2	THE COURT: Major Fein, please account for
3	the parties.
4	MR. FEIN: Your Honor, all parties in the
5	court when the court last recessed are again present.
6	THE COURT: Is the government ready to
7	proceed?
8	MR. FEIN: Yes, ma'am.
9	THE COURT: Are there any issues we need on
10	address before we proceed?
11	MR. FEIN: No, ma'am.
12	MR. COOMBS: No, Your Honor.
13	THE COURT: All right. Proceed.
14	MR. MORROW: The government recalls Mr. Mark
15	Johnson.
16	Mr. Johnson, I just want to remind you you're
17	still under oath.
18	THE WITNESS: Yes, sir.
19	Whereupon:
20	MARK JOHNSON,
21	recalled as a witness, having been previously duly

sworn according to law, testified as follows: 1 2 DIRECT EXAMINATION BY MR. MORROW: 3 Q. Mr. Johnson, we discussed your examination of 4 an external hard disk drive earlier. What other pieces of evidence did you examine in this case? 5 We examined a forensic image obtained from PFC 6 Α. 7 Manning's Mac Book Pro computer or laptop. You said a Mac Book Pro laptop? 8 Q. **A**. Mac Book Pro laptop. 10 THE COURT: A Mac? 11 THE WITNESS: A Mac Book Pro, Your Honor. BY MR. MORROW: 12 13 Q. Who makes that, a Mac Book Pro? 14 A. Apple Computer. 15 Q. And what exactly did you examine? I examined the forensic image of the hard 16 Α. 17 drive obtained from that laptop. 18 Q. And before beginning your examination, what did you do first? 19 Retrieved the evidence from our evidence 20 Α. 21 storage, brought it to my work station, made a local

- 1 copy, working copy, validated the image hash both with
- 2 the embedded image hash as well as compared with the
- 3 notes obtained from the acquiring agent.
- 4 THE COURT: Can I interrupt you for just a
- 5 minute? I asked where did the computer come from.
- 6 BY MR. MORROW:
- 7 Q. Mr. Johnson, where was this computer collected
- 8 from?
- 9 A. The computer was collected from PFC Manning's
- 10 housing unit in Iraq at FOB Hammer.
- 11 Q. And what kind of operating system did this
- 12 computer have?
- 13 A. The Mac OS 10.
- 14 Q. And what is Mac OS 10?
- 15 A. OS 10 is the operating system used by Apple
- 16 Computers for Macintosh computers.
- 17 Q. And when was this operating system installed
- 18 on the computer?
- 19 A. 25 January of 2010.
- Q. And how do you know?
- 21 A. We obtained the installation log from the

- 1 operating system installation log of the hard drive.
- Q. And where is the installation log located on
- 3 the computer?
- 4 A. The system log folder.
- 5 Q. I'm retrieving prosecution exhibit 126 for
- 6 identification. 126 Alpha and Bravo. Excuse me.
- 7 I'm handing the witness what's been marked as
- 8 prosecution exhibit 126 Alpha and 126 Bravo. Just feel
- 9 free to extract both.
- Mr. Johnson, do you recognize that document?
- 11 A. I do.
- 12 O. And what is it?
- 13 A. This is the contents of the install log
- obtained from the Mac Book Pro's hard drive.
- 15 Q. Is that the entire install log?
- 16 A. I believe it is, sir.
- 17 MR. MORROW: Permission to publish to the
- 18 court, Your Honor.
- 19 THE COURT: Proceed.
- 20 BY MR. MORROW:
- 21 Q. Mr. Johnson, I'm going to show you 126 Alpha

- first. Using this exhibit, can you explain your
  testimony earlier about the installation of the operating
  system?
  - A. The installation log is created by the OS 10 and it logs number of actions related to the installation of the operating system. On line number 6 there you can actually annotate where it's starting itself on January 25.
- 9 MR. TOOMAN: Your Honor, the defense will 10 stipulate that the operating system was installed on 25 11 January.
- 12 THE COURT: All right.
- MR. MORROW: Okay.
- 14 BY MR. MORROW:

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- Q. Mr. Johnson, I'm going to show you page two of 126 Bravo. Can you explain what else you observed in the install log?
  - A. If you look at line number 33 here, you'll note that it's wipe and secure erase. This was an option selected during the installation to securely wipe the hard drive during the installation process prior to the

- 1 (INAUDIBLE) being installed.
- Q. Now, what do you mean by wipe and secure
- 3 erase, what does that actually mean? What is the
- 4 computer actually doing?
- 5 A. It's clearing the storage on the hard drive
- 6 and writing out with zeroes.
- 7 THE COURT: What line is that?
- 8 THE WITNESS: Line number 33, ma'am.
- 9 MR. MORROW: Your Honor, the government moves
- 10 to admit prosecution exhibit Alpha and Bravo 126 for
- 11 identification.
- MR. TOOMAN: No objection.
- THE COURT: May I see them, please?
- 14 Prosecution exhibits 126 Alpha and Bravo are admitted.
- 15 BY MR. MORROW:
- 16 Q. Mr. Johnson, what was your investigative plan
- 17 for the computer?
- 18 A. In this case we were looking for evidence of
- 19 chat communications or indications of classified
- 20 information.
- 21 Q. So what's the first thing you did?

- A. We were looking to see if there was any chat programs installed on this program -- on the computer, and if so, what information may have been logged.
- Q. And what did you find?
- 5 A. We identified the ADM program was installed.
- 6 Q. And what is ADM?
- 7 A. ADM is a chat program used on the OS 10.
- Q. And did you find any chat logs in the ADM
- 9 program?
- 10 A. We did.
- 11 Q. And who are those chats between?
- 12 A. Private Manning and Adrian Lamo.
- Q. Did the ADM application contain evidence of any other communications?
- A. Yeah. We looked in PFC Manning's buddy list
  for the ADM program to see who else he might have been
  communicating with. We identified one entry that was of
  interest indicating the chat account pressassociation was
  associated with an alias of Julian Assange.
- Q. All right. Let's back up a little bit.
- 21 What's a buddy list?

- A. Buddy list is your list of friends or contacts that you would be chatting with in a chat program.
- Q. And what is an alias that you're talking about in this context?
- 5 A. In this context an alias would be a nickname or user supplied contact name.
- Q. And the name Julian Assange was associated with what account?
  - A. The chat account pressassociation.
- Q. I'm showing you what's been marked as
  prosecution exhibit 120 for identification. I'm handing
  the witness what's been marked as prosecution exhibit 120
  for identification.
- Do you recognize those images, Mr. Johnson?
- 15 A. I do.

- Q. And what are they?
- A. The first one here is the, an excerpt of the buddy list showing the contact pressassociation associated with Julian Assange. The second is an excerpt obtained from an unallocated cluster referring to
- 21 pressassociation from with the alias of a Nathaniel

- 1 Frank.
- 2 MR. MORROW: Permission to publish, Your
- 3 Honor.
- 4 THE COURT: Granted.
- 5 BY MR. MORROW:
- Q. All right. Let's look at page one of prosecution exhibit 120 for ID. Can you just repeat or just explain the image as it appears on the screen,
- 9 please?

10 A. Yeah. This is an excerpt contained from the

buddy list. It shows the buddy account of dog network,

- which is associated with PFC Manning on his computer.
- 13 The chat remote person is pressassociation at jabber dot
- 14 DE which I typically refer to as pressassociation, the
- 15 alias below it, Julian Assange is the nickname.
- 16 Q. Was jabber dot DE?
- 17 A. That is a remote host that is used for Jabber
- 18 Communications.
- 19 Q. And what's Jabber?
- 20 A. Jabber is a chat network, it's used by a
- 21 number of sources. Until fairly recently it was very

- 1 similar to Google Talk.
- Q. And where did you find this on the computer?
- 3 A. This one was found in the ADM's configuration
- 4 folder.

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- 5 Q. On so on the allocated or unallocated side?
- 6 A. This one was allocated, sir.
  - Q. I'm going to show you page two of prosecution exhibit 120 for ID. Can you explain this image, please?
  - A. This one is an excerpt taken from an unallocated cluster which appears to have been a deleted or removed entry for that same pressassociation account, also associated with dog network. This time, however, it's showing the alias of Nathaniel Frank.
- Q. And where did you find this information on the computer?
- 16 A. This is in an unallocated cluster, sir.
- 17 Q. Again, what does that mean for the for the 18 court?
- A. An unallocated cluster is deleted contents of former files.
- 21 MR. MORROW: Your Honor, prosecution moves to

- 1 admit prosecution exhibit 120 for ID into evidence.
- 2 MR. TOOMAN: No objection.
- THE COURT: Prosecution exhibit 120 for
- 4 identification is admitted.
- 5 BY MR. MORROW:
- Q. Now, Mr. Johnson, we talked about this before,
  but how do you search allocated space on a computer?
- A. It would depend on the situation. Often times we're using keyword searches for things we already know.
- 10 Q. Just can you give me an example?
- 11 A. For example, in this case I would be looking
  12 for pressassociation or Nathaniel Frank.
- Q. And so you'd use -- how would you use that keyword with a forensic tool?
- 15 A. We use the keyword search in the EnCase tool
  16 to find matches.
- Q. So after you found the pressassociation account in the unallocated space, what did you do next?
- A. Well, now that we have an additional alias

  Nathaniel Frank, we're going to look for other chats with

  that alias with pressassociation to see if there was any

- 1 other remnants of that account.
- Q. And what did you find?
- A. We found a large list of other what appear to
  be chats with Nathaniel Frank, between Nathaniel Frank
  and Bradley Manning.
- Q. And where did you find these chats on the computer?
- 8 A. Unallocated space, sir.
- 9 Q. And were these chats, was it all in one file, 10 like all put together?
- 11 A. No. They were in a number of chunks, split up
  12 in the unallocated space.
- 13 0. And were the chats readable to humans?
- A. They are readable, but they are fragments of

  XML used by ADM, so they're readable but they're not easy

  to read by a human.
- 17 Q. You said XML. What is XML?
- A. XML is a language used by a number of
  applications, web browsers and other applications. It's
  intended for ease of computers to parse data. It's not
  really intended for human consumption, but it is

1 readable.

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- Q. Now, when you read through the contents of these chat logs in the unallocated space, what is the subject matter?
- 5 A. They appear to be discussing government 6 information.
  - Q. Now, my understanding of unallocated space is that there's generally not a date associated with the information. Do these chat logs have dates?
- 10 A. Yes, they did. That's true, when in
  11 unallocated space we often lose the metadata associated
  12 with the file because the file is no longer there.
- However, in this particular case the date and time with
  the chats is actually logged as part of the chat log
  entry, so it was recoverable.
  - Q. Once you identified the chats in the unallocated space, what did you do next?
  - A. After we identified the entries, we carved them out using EnCase, sent them out to an external file so I could make them more easy to read.
  - Q. And what form did you put the chats in?

- 1 A. I converted them to an Excel spreadsheet.
- Q. Now, when you converted them to an Excel
- 3 spreadsheet, did alter the files?
- A. No, sir.
- 5 Q. And how did you organize these chats in the 6 spreadsheet?
- 7 A. They were organized by date and time.
- Q. I'm showing you what's been marked asprosecution exhibit 123 for identification.
- Mr. Johnson, do you recognize that document?
- 13 A. I do.
- 14 Q. And what is it?
- 15 A. This is the contents of the spreadsheet I
  16 created in the chat extracted in unallocated space
- between Bradley Manning and the alias of Nathaniel Frank.
- 18 Q. Permission to -- actually, hold on a second.
- Now, did you create this document?
- 20 A. Yes, sir.
- 21 Q. And I assume when you created the document it

- was a digital file, is that correct?
- A. Yes, sir.
- 3 Q. Is this how the document would appear if
- 4 printed?
- 5 A. Yes, sir.
- 6 MR. MORROW: Your Honor -- well, more
- 7 questions.
- 8 Q. What's the first date of the chats that you
- 9 were able to recover?
- 10 A. March 5, 2010.
- 11 Q. And what was the last date of the chats?
- 12 A. March 18.
- 13 Q. Now, did you recover chats for every day in
- 14 between March 5 and March 18?
- 15 A. I don't believe we have every single date. I
- 16 don't recall specifically.
- No, there are dates missing, sir.
- 18 Q. Now, is this the extent of the chats you were
- 19 able to recover in the unallocated space?
- 20 A. Yes, sir.
- 21 Q. And you said something about government

- information earlier. What government information did
  they discuss or did the parties discuss in the chat logs?
- A. They have a variety of topics here.
- 4 Specifically they were mentioning Iceland, Iraq,
- 5 Afghanistan and Gitmo.
- Q. And do the parties discuss WikiLeaks?
- 7 A. Yes, sir.
- 8 MR. MORROW: Your Honor, at this time the 9 prosecution moves to admit prosecution exhibit 123 for 10 identification into evidence.
- MR. TOOMAN: No objection, ma'am.
- 12 THE COURT: All right. Prosecution exhibit
- 13 123 is admitted.
- 14 BY MR. MORROW:
- Q. Mr. Johnson, let's talk about some of your

  other findings. Did you find any evidence of connections
- 17 between this computer and other computers?
- 18 A. Yes, sir.
- 19 Q. Can you explain, please?
- 20 A. Earlier during chat communications with Mr.
- 21 Lamo he had discussed using SSH or SFTP to transfer

- files, so I looked to see if he actually was using SSH or SFTP.
- Q. All right. So let's go very slowly.
- THE COURT: I was going to ask you, if you could speak just a little more slowly. I'm having difficulty understanding you.
- 7 THE WITNESS: Sorry, Your Honor.
- 8 Q. What is SSH?
- 9 A. Secure shell. It is a computer program or
  10 computer protocol used for creating encrypted
  11 communication link between remote computers.
- 12 O. And what is SFTP?
- A. SFTP is a subset or works in conjunction with
  SSH. It stands for the secure file transfer protocol.
  It is to allow for transferring the files over the SSH
  communication link.
- Q. Now, when you looked at the -- first of all, where did you find this SSH information?
- A. We found it in the known hosts file. That is
  a file that contains public key information of remote
  hosts that have been connected to at least once.

- Q. And what do you mean by public key information?
- A. SSH using public key cryptography to handle
  the encryption between the hosts. The public key is
  stored locally so that you are able to encrypt the
  communication to the remote recipient.
- Q. And what did you observe in this known host file?
  - A. Well, we saw several IP addresses and a URL connecting to ports that are unusual for SSH. They stood out because of that.
  - Q. And were you able to resolve where these connections were made to?
- 14 A. Yes, sir.

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- Q. And where were they made to?
  - A. The IP addresses and domain, one of them traced back by investigations to Verizon Communications that ultimately resolved back to Bradley Manning's aunt. The others resolved back to an ISP known as PRQ known to be associated with WikiLeaks.
- 21 Q. And did you find any emails on the computer?

- 1 A. We did.
- Q. And where did you find emails?
- 3 A. In his Thunderbird email cache.
- Q. And what is Thunderbird?
- 5 A. Thunderbird is a client email program similar 6 to Outlook used on a number of systems including Mac.
- Q. And when you say email cache, what do you mean by that?
- 9 A. There's actually email in this cache of a
  10 Gmail account which is usually a storage server site, but
  11 when it's online with Thunderbird it will download.
- Q. So this email was stored locally on the computer?
- 14 A. Yes, sir.
- Q. And what did you do with the email you found on this computer?
- A. We looked at the email to see if there was any relevant content.
- Q. And what do you mean by relevant content, what were you looking for?
- 21 A. Specifically classified information,

- 1 discussions of government information and the like.
- Q. And what did you find in this email?
- A. Well, they identified a number of PGP or GPG encrypted emails.
- Q. All right. Let's start slowly with that again. What's PGP?
- A. PGP is pretty good privacy, a public key based encryption method used predominantly with email and GPG is the open source clone of that.
- 10 Q. So they're basically the same?
- 11 A. They are entirely compatible with one another.
- 12 Q. Now, you said, were these messages encrypted?
- A. Yes, sir.
- Q. Did you find unencrypted messages?
- 15 A. I did.
- Q. And was there anything of interest in some of the unencrypted messages?
- A. The unencrypted message indicated potentially a discussion of classified information.
- Q. So let's go back to you mentioned, you
  mentioned public keys a number of times. If an email is

encrypted, how does the other party read the email?

- A. With public key cryptography, in the case of --
  - Q. Can you speak up a little bit, Mr. Johnson?
  - A. I'm sorry. Pardon me. I'm not a loud talker.
  - Public key cryptography is a concept of you only want the authorized recipient to be able to decrypt your message. PGP does this and so does (INAUDIBLE) based authentication, they use the same principles. The public key is from the recipient you have a corresponding secret key. They work mathematically with each other, so I can encrypt messages to someone and I can receive messages from them, but only that person can decrypt them.
  - Q. Now, how does a forensic examiner go about decrypting email they find?
    - A. Well, on this particular machine I can only decrypt the information that's been sent to me. I cannot see the messages that are being sent out because I don't have the recipient's public key, but I do have the secret key for PFC Manning because it's on his computer. All I

- have to identify is the password necessary to open that
  private key.
- Q. And were you able to find the password for this private key?
- 5 A. I was.

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- 6 Q. And how did you locate that?
  - A. Well, when we have to decrypt things, we have to try to figure out what the password is, one of the things we look at is has he used passwords that we know of from his past. In the past his password was the same as the log-in password for the Mac.
- Q. And what do you mean by a log-in password for the user?
  - A. All user accounts on the Mac are going to be password protected. They're normally set up at installation or possibly changed at a later date, even if the machine is set to auto log on. In this case the password is actually stored on the hard drive, we use a tool, the Mac forensics lab, to extract that log word. I can then compare it against the PGP and try it, and it worked.

So the Mac word password was used on the 1 Q. 2 private key in this case? 3 Α. Yes. Now, once you figured that out, what were you 4 5 able to do? At this point I can then run the encrypted 6 Α. 7 messages through PGP myself and decrypt them. And did you review the decrypted email? 8 Q. Α. I did. 10 And what did you find? Q. I found discussions of classified information, 11 Α. specifically Bradley Manning's role in the release of the 12 Granahi video. 13 14 THE COURT: Can you say that one more time? 15 THE WITNESS: Specifically his involvement in the release of the collateral murder video. 16 17 18 BY MR. MORROW: 19 I'm showing you prosecution exhibit 41? Q. 20 I'm handing the witness what's been marked as prosecution exhibit 41 for identification. 21

- 1 A. Yes, sir.
- Q. Do you recognize that document?
- 3 A. I do.
- 4 Q. And what is it?
- 5 A. This is one of the emails between Bradley
- 6 Manning and Mr. Eric Schmiedel obtained from his email
- 7 account discussing classified information.
- 8 Q. And can you just read -- well, actually let me
- 9 -- permission to publish to the court, Your Honor.
- 10 THE COURT: Go ahead.
- 11 MR. MORROW: I'm just going to publish page
- 12 one.
- 13 BY MR. MORROW:
- Q. Mr. Johnson, is this the email you reviewed in
- 15 PFC Manning's, or at least one of emails you reviewed?
- 16 A. Yes, sir.
- 17 Q. And just can you point out in the email the
- 18 information we're talking about earlier?
- 19 A. In this case what you can see here is an email
- 20 thread. If you look about three-fourths of the way down
- 21 you can see where you're seeing Bradley Manning's reply.

- This is an answer, I have various other questions, and the very next line there, I approve the edits without reviewing the video. If you go back, you can see from this whole thing at the top here, my objection to collateral murder. This whole email is in relation to
- Q. And does the email discuss other government information that PFC Manning allegedly compromised?
- 9 A. Yes, sir. We have a number of state
  10 department cables being discussed.

the collateral murder video.

- 11 MR. MORROW: Your Honor, the prosecution
  12 moves to admit prosecution exhibit 41 for identification
  13 into evidence.
- MR. TOOMAN: No objection, ma'am.
- THE COURT: May I see it, please?
- 16 Prosecution exhibit 41 for identification is
- 17 admitted.

- 18 BY MR. MORROW:
- Q. Mr. Johnson, I want to talk or shift to some of the capabilities of this computer. Did this computer have a CD or a DVD system?

- 1 A. It did.
- 2 Q. And are there any ways to tell whether a CD
- 3 has been, a CD or a DVD has been written to or erased?
- 4 A. Yes, sir.
- 5 Q. And how would you tell this?
- A. In this case the operating system contains a disk recording log that keeps track of the number of actions related to the operation or eraser or erasure or re-erasure of rewritable disks.
- Q. And where did you find this disk recording log?
- 12 A. It's in the log folder.
- Q. And how is this information created?
- 14 A. It's maintained by the operating system
- 15 itself.
- 16 Q. And when you reviewed the disk recording log,
- 17 what did you find?
- 18 A. We found indications of a number of optical
- 19 media being written and erased.
- 20 Q. Say that again, please.
- 21 A. Written and erased.

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I'm going to show you what's been marked as
1
         Q.
2
    prosecution exhibit 124 for ID.
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                 I'm handing the witness has been marked as
    prosecution exhibit 124 for identification.
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5
                 Mr. Johnson, can you review that document,
6
    please?
7
         Α.
                It's the wrong document.
                Do you recognize the document?
8
         Q.
         Α.
                This is the utility log.
10
                I'm sorry. I retrieved the wrong exhibit.
         Q.
                                                             Мy
11
    apologies. One moment.
12
                 What is the document, Mr. Johnson?
13
                This is the (INAUDIBLE) what appears to be the
14
    disk utility log. I'm sorry, sir. This is correct.
    This is the --
15
16
                 THE COURT: I'm sorry. It's a what?
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                 THE WITNESS: Disk recording log.
18
                 THE COURT: Disk recording log.
                 THE WITNESS: I do apologize. I was thrown
19
20
    off. I was seeing this without the line numbers until
21
    today.
```

- 1 BY MR. MORROW:
- Q. Did you extract that document?
- A. Yes, sir.
- Q. Now, what's different from this document from
- 5 what you extracted?
- 6 A. It has had line numbers appended to it for
- 7 clarity.
- MR. MORROW: Permission to publish, Your
- 9 Honor.
- 10 THE COURT: Go ahead.
- 11 BY MR. MORROW:
- 12 Q. I'm showing you page one of the disk recording
- 13 log. Mr. Johnson, when was the first recording of a disk
- 14 being written to?
- 15 A. The log was indicating the first one in this
- 16 case was January 30, 2010.
- 17 Q. And I'm going to show you the last page of
- 18 this exhibit, page five. What is the last recording in
- 19 this case?
- 20 A. April 30, 2010.
- Q. And what's that showing in line 189?

- 1 A. That an erasure has occurred.
- Q. And what does that mean?
- A. A rewritable disk, in this case a CD
- 4 rewritable, has been erased.
- 5 Q. Now, I showed you the other page of this log;
- 6 what type of information is contained?
- 7 A. You'll see a number of those series of both
- 8 erasures and burns.
- 9 MR. MORROW: Your Honor, the prosecution
- 10 moves to admit prosecution exhibit 124 for identification
- 11 into evidence.
- MR. TOOMAN: No objection, Your Honor.
- 13 THE COURT: Prosecution exhibit 124 is
- 14 admitted.
- 15 BY MR. MORROW:
- Q. Now, this disk recording log, could you tell
- what files are on those CDs?
- 18 A. No, sir.
- 19 Q. And at any time in this case or during your
- 20 examination did you search for file names that may have
- 21 been on CDs that were burned or erased?

- 1 A. Yes, sir.
- Q. And what did you find?
- A. Previously I had identified a CD that had been obtained from PFC Manning's (INAUDIBLE) made in Iraq. We had a file name on that disk that was provided to me. We searched for that file name on the disk image of his Mac.
  - Q. And do you recall the file name?
  - A. I don't recall the entire file name, but it was partially engagement video.
- 10 Q. I'm going to show you what's been marked as
  11 prosecution exhibit 121 for identification.
- I'm handing the witness what's been marked prosecution exhibit 121 for identification. Do you recognize that document?
- 15 A. I do.

8

- 16 Q. And what is it?
- A. This is a portion of unallocated space, a carve out portion that shows the file name in question in conjunction with some other text, specifically the word volumes and what appears to be additional file names.
- 21 MR. MORROW: Permission to publish, Your

1 Honor.

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- THE COURT: Yes.
- 3 BY MR. MORROW:

EnCase's viewer.

- Q. Mr. Johnson, let's go through this just
- 5 slowly. How is this document or image created?
  - A. We're looking at the unallocated clusters in EnCase in a raw format. Since we don't have file or allocated information, we have to actually look at it raw. What you're seeing here is a snippet of that information it pulled from that as I would see it in
- Q. Now, using this image, can you describe for the court the keyword you searched?
  - A. If you look right there sort of in the middle of the page the July 07 CD engagement zone, the engagement zone is what I'm looking for. You can see the area around it is information that was obtained or related to it, specifically to the left you can see the word volumes and some numbers.
    - Q. And what does volumes mean to you?
- 21 A. On the Mac operating system the volumes is

- used as a mounting point, that being you have to attach external media or removable media, whether that was CD, DVD, external hard drives, they have to be attached to the system to use them. Mac uses the word volumes as their mounting point.
  - Q. What does volumes indicate to you then?
- A. Seeing a fragment like this in conjunction with a file name that I'm looking for would indicate to me that a file with that name was possibly contained on external media.
- 11 Q. External media that was inserted into the 12 computer?
- A. Yes, sir.

- Q. Now, once you found this excerpt in the unallocated space, what did you do next?
  - A. Now that I see that he's got external media with content that's potentially relevant, I want to see if there's anything else of similar nature, so I'm looking for other volumes that might have been attached.
- Q. And what did you do when you -- did you find any other volumes that might have been attached or any

- 1 evidence of any external media being attached?
- 2 A. I did.
- Q. And what did you do once you found those other references?
- A. I went to find the other volumes by using a pattern, and doing so I found a large number of matches for the pattern. After I found those I identified all of them and extracted them at my examination work station.
  - Q. I'm showing you what's been marked as prosecution exhibit 127 for identification.
- Mr. Johnson, I'm handing you what's been marked as prosecution exhibit 127 for identification.
- 13 I'm going to hand the court reporter 121 for identification.
- Do you recognize that document?
- 16 A. I do.

- 17 Q. And what is it?
- A. This is the contents of a text file that I

  created showing all of the volumes we extracted from

  unallocated space.
- 21 Q. And how did you create this file?

After we find all the matches in unallocated 1 Α. 2 space, we carve out just the portion relevant. 3 looking for in this case file path. I had pulled them out into a text file where I can manipulate it to make it 4 easier to read, in this case reducing duplicates, sorting 5 6 it and creating this document. 7 MR. MORROW: Permission to publish, Your 8 Honor. 9 THE COURT: Go ahead. BY MR. MORROW: 10 11 Q. Mr. Johnson, I'm just going to show you the 12 first page. Can you see that? 13 Α. Yes, sir. 14 Q. Can you -- how did you organize this document? 15 Α. It was sorted. 16 Sorted by what? Is this sorted by date? Q. 17 Yes, sir. Α. 18 Q. Let's just go through one line, we'll say line seven. Can you just explain from left to right the 19 information? 20 Sure. What you see here after it was 21 Α.

- extracted is what appears to be the full path, the volume being the mount that I discussed earlier. The next thing would be the volume name. It has to have some sort of name, so in this case it appears to be using a date and time as its name, which is common. And then the last portion there you see line seven, 10 Reykjavik 21 would likely be a file name.
- 8 Q. Now, let's just back up a little bit. I see
  9 100215 underscore 0621 in line seven. What does that
  10 mean?
- 11 A. As I mentioned, all volumes or external media 12 has to have a name of some sort. If you don't specify 13 one, whatever application is used to create it will have 14 to come up with one, and in most of those cases a date 15 and time is used as a default and that appears to be the 16 case here.
- Q. And would a Roxio program create that kind of default file name?
- 19 A. I believe it does, sir.

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20 MR. MORROW: Your Honor, the prosecution
21 moves to admit prosecution exhibit 127 for identification

## **UNOFFICIAL DRAFT - 6/12/13 Morning Session**

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1
    into evidence.
 2
                  MR. TOOMAN: No objection, ma'am.
 3
                  THE COURT: May I see it, please?
                  Prosecution exhibit 127 is admitted.
 4
 5
    BY MR. MORROW:
                Now, Mr. Johnson, what was significant about
 6
         Q.
 7
    some of the file names you saw in the prosecution exhibit
    127?
 8
         Α.
                 They appear to have a similar or identical
10
    format to message record numbers.
                And what about some of the others that are
11
         0.
12
    non-state department information?
13
         Α.
                Could you be more specific, sir?
14
         Q.
                For example, Farah dot zip I believe was on
15
    page two.
16
         Α.
                Okay.
                Was there any evidence of that file name being
17
         0.
18
    on PFC Manning's SIPRNET computers?
19
                 I'm sorry, sir. Did you say SIPRNET
         Α.
20
    computers?
21
         Q.
                Yes.
```

- A. I believe that information was discovered by our agents, yes, sir.
- Q. Now, let's actually just roll back to some

  other information on the computer. Did you find any

  evidence of state department classified information or

  unclassified information on the personal computer of PFC

  Manning?
- 8 A. Yes, sir.
- 9 Q. And what did you find?
- 10 A. We found a number of references to message 11 record numbers which is a very unique structure.
- 12 Q. And where did you find that?
- 13 A. Unallocated space, sir.
- Q. And in the unallocated space or the allocated space, did you find any state department messages that were decoded in base64?
- 17 A. No, sir.
- Q. Did you find anything that would encode a cable or state department cable in base64?
- 20 A. Yes, sir.
- Q. And what did you find?

- A. We identified what appears to be processing script intended to convert information from a cable to a base64 common separated value format.
  - Q. And did you attempt to use this script?
- 5 A. I did.

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- Q. And just describe the process of using the script, just go through it with the court, please.
- A. Well, after we review the contents of the script, we actually read through the content to see what it might do. We can see some very distinct things. It has fields related to message record numbers, classification in base64. We also see a hard coded path pointing directly to PFC Manning's directory. After we extracted that using some sample of cables provided and it generated the output expected.
- Q. So let's take the 50,000 foot view. What did
  you put in and what did it spit out?
- 18 A. The input is HTML files of state department
  19 files; the output is the common separated value files.
  - Q. And with base64 encoded?
- 21 A. Yes, sir.

- Q. Now, did you find any evidence that this computer uploaded information to the WikiLeaks website?
- A. We found fragments of what appear to be references to the WikiLeaks page showing uploads of several file names, specifically file segment fragments to a WikiLeaks page.
- 7 Q. And where did you find this evidence?
- 8 A. It's in unallocated, sir.

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- 9 Q. And what files appear to have been uploaded to the WikiLeaks web page?
- 11 A. What appear to be file name fragments are
  12 Farah dot RAR in segments.
- 13 THE COURT: I'm sorry.
- Q. Spell it out. When you say Farah dot RAR, I think your accent may be confusing.
- 16 A. Farah dot RAR is F A R A H dot R A R.
- 17 Q. And what is an R A R file?
- A. RAR is an RAR archive. It is a compression and archiving format very similar to the more common zip that you're probably familiar.
- 21 THE COURT: Like a zip?

- THE WITNESS: Very similar to a zip file, 1 2 ma'am. 3 BY MR. MORROW: And when you found this information, did you 4 Q. find the actual files in this part of the computer? 5 6 Α. No, sir. So what exactly did this information convey or 7 Q. what did it tell you when you saw this information in the 8 unallocated space? 9 10 I'm seeing what appears to be these file names Α. 11 in conjunction with URL, indicating in conjunction with 12 what appears to be an upload URL. Also, there was a 13 series of these in conjunction with one another also 14 indicating what appear to be dates and times. And 15 finally at the end of that the phrase upload complete. 16 Q. Now, when you say there was a series of them, 17 were they separated into different parts? 18
  - A. It appeared to be a segmented RAR file. What that means is an RAR file that had been broken up into several smaller pieces and what we're seeing here is the upload of each segment.

20

- Mr. Johnson, I want to shift gears for a Q. moment. One of the charges in this case involves a theft of a global address list. Did you find anything related 4 to emails or global address lists in your review of this computer?
- I did. 6 Α.

2

3

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12

- 7 Q. And what did you find?
- Two specific references of relevance. 8 Α.
- 9 Q. What was the first one?

address list be exfiltrated.

- 10 The first one appeared to be, I would classify Α. as a tasker indicating someone requesting that the global 11
- 13 0. I'm retrieving what's been marked as prosecution exhibit 122 for identification. 14
- 15 Mr. Johnson, I'm handing you what's been marked as prosecution exhibit 122 for identification. 16 17 you recognize that image?
- 18 Α. T do.
- 19 And what is it? Q.
- 20 This is the contents of the unallocated space Α. of the tasker I discovered. 21

- And is that the entirety of the tasker that 1 Q. you found? 2 3 Α. It seems to be cut off. I don't recall if there was any more at the bottom of this, sir. 4 Q. If there was more in the tasker would you have 5 included it in your screen shot? 6 7 Α. Yes, sir. MR. MORROW: Permission to publish, Your 8 9 Honor. 10 THE COURT: Go ahead. 11 BY MR. MORROW:
- Q. Where was this information found again?
- A. Unallocated, sir.
- Q. And how did you find it in the unallocated space?
- A. In this case we just stumbled upon it during our examination finding it in other things.
- MR. MORROW: Your Honor, the prosecution
  moves to admit prosecution exhibit 122 for identification
  into evidence.
- MR. TOOMAN: No objection.

- 1 THE COURT: Thank you. Prosecution exhibit
- 2 122 is admitted.
- 3 BY MR. MORROW:
- Q. Mr. Johnson, what was the -- you mentioned
- 5 there were two things you found that were of interest.
- 6 What was the second thing?
- 7 A. The second thing was a large number of what
- 8 appear to be exchange formatted email addresses.
- 9 Q. And what do you mean by exchange formatted
- 10 email address. What is exchange?
- 11 A. Exchange is the Microsoft platform for email
- 12 servers and infrastructure of email.
- Q. And you said these were email addresses?
- 14 A. Yes, sir.
- Q. Approximately how many email addresses did you
- 16 find?
- 17 A. A large number, sir, in the thousands.
- 18 Q. In the thousands?
- 19 A. Yes, sir.
- 20 Q. Now, where was this found in the computer?
- 21 A. Unallocated, sir.

- Q. Mr. Johnson, it appears that a lot of the information that you found was in the unallocated space.

  Did you find any evidence of this computer being wiped at any time?
- 5 A. Yes, sir.

2

3

- Q. And where did you find that evidence?
- A. As noted earlier, the first was, it was wiped during the installation process. Also, we identified that free space had been wiped on a couple of occasions.
- 10 Q. And what do you mean by free space?
- 11 A. Free space is the unallocated clusters.
- 12 Q. And where did you find that evidence?
- 13 A. The disk utility log.
- Q. And what is a disk utility log?
- A. A disk utility log is a log file, again,
  maintained by the operating system in conjunction with
  the use of the disk utility program.
- Q. And is that log created by a user or is it created by the computer?
- 20 A. No. It's maintained by the system when they
  21 use a disk utility.

- 1 Q. I'm retrieving what's been marked as 2 prosecution exhibit 125 for identification.
- Mr. Johnson, I'm handing you what's been marked as prosecution exhibit 125 for identification.
- 5 A. Okay, sir.
- 6 Q. Do you recognize that document?
- 7 A. I do.
- 8 Q. And what is it?
- 9 A. This is the contents of the disk utility log
  10 obtained from PFC Manning's computer.
- 11 O. And how was that document created?
- A. This was exported from the disk image prior to my examination on the system.
- Q. Where on the log can you point me to that the free space was wiped?
- A. In this log file you will see a number of indications. See if I can find it.
- 18 O. I believe it would be towards the front.
- 19 A. Yeah. Here we are. Where you see secure free 20 space being first, in this case, being stopped.
- 21 Q. Stop you for a moment. Permission to publish.

```
THE COURT: Go ahead.
1
 2
                I'm going to publish page two.
         Q.
 3
                 Can you point out the line, Mr. Johnson, that
    indicates that the free space was wiped?
4
         Α.
                There are two. The first one you see in line
5
    67 starts the process of running the secure erase free
6
7
    space for unallocated clusters. This one was canceled,
    it stopped.
8
         Q.
                And why was it canceled?
                My experience would be it was canceled because
10
         Α.
11
                 MR. TOOMAN: Objection.
12
13
                 THE COURT: Yes.
                 MR. TOOMAN: This witness would not be able
14
15
    to testify as to why, Your Honor, this particular process
    was canceled.
16
17
                 THE COURT: You're talking about line 67?
18
                 THE WITNESS:
                                That's the start, ma'am. It's
    a block. It completes at line 76 in this block.
19
20
                 THE COURT: Why don't you ask some additional
21
    foundation questions?
```

- 1 BY MR. MORROW:
- Q. Mr. Johnson, I'll refer you to line 70. What
- 3 does that line indicate to you?
- A. It indicates the option is usually a 35 pass
- 5 erase option. There are several options with a secure
- 6 erase.
- 7 Q. Now, what does a 35 pass erase option mean?
- 8 A. 35 passes means the operating system will
- 9 literally wipe the drive 35 times.
- 10 Q. And that's an option that you can select when
- 11 you're choosing to --
- 12 A. Yes, sir. There are several options, 35 pass
- 13 being one of them.
- Q. Now, I'll refer you to line 74. Can you
- 15 explain what's conveyed by that line?
- 16 A. It indicates that it was stopped in 43 seconds
- 17 indicating it was likely canceled because it would not
- 18 have completed in 43 seconds.
- 19 Q. And how long, in your experience, how long
- 20 does a 35 pass erase take?
- 21 A. It will depend on the size of the drive, but

- 1 many, many hours, even days in some cases.
- Q. And now I'll refer you to line 79. What does
- 3 that line convey?
- A. This indicates a seven pass free space erase,
- 5 another option available.
- Q. And again, what would the computer do with a
- 7 seven pass erase?
- 8 A. It will erase seven times versus 35.
- 9 Q. And what was the result of that seven pass
- 10 erase?
- 11 A. This pass did complete.
- 12 Q. And how do you know that?
- 13 A. It's indicated in line 85.
- 14 Q. Line 85?
- A. Yes, sir. Or line 85 or line 86.
- 16 Q. And how long did it take for the computer to
- 17 complete the seven pass erase?
- 18 A. Three hours and 48 minutes.
- MR. MORROW: Your Honor, the prosecution
- 20 moves to admit prosecution exhibit 125 for identification
- 21 into evidence.

MR. TOOMAN: No objection, ma'am. 1 2 THE COURT: Can I see it, please? 3 Prosecution exhibit 125 for identification is admitted. 4 BY MR. MORROW: 5 Now, Mr. Johnson, based on what you reviewed 6 7 in the install log and what you've reviewed in the disk utility log, what can you say about what will be able to 8 be recovered from this computer? 10 All we can say is all of the allocated files Α. 11 in this system have been created subsequent to its 12 installation on January 25. However, all of the 13 unallocated is after the last free space wipe on January 14 31. 15 0. So what are the pertinent dates in terms of the information that can be recovered on the computer? 16 17 Nothing can be recovered prior to 25 January, 18 nothing in unallocated space can be prior to 31 January. 19 MR. MORROW: Thank you, Mr. Johnson. 20 MR. TOOMAN: Ma'am, the defense requests a ten minute comfort break before we have cross 21

```
examination.
1
 2
                 THE COURT: Any objection?
 3
                 MR. FEIN: No, ma'am.
                 (BRIEF RECESS.)
 4
                 THE COURT: Let the record reflect all the
5
6
    parties present when the court recessed are again
    present. The witness is on the witness stand.
7
                 Anything we need to address?
8
9
                 MR. FEIN: Yes, ma'am. Quickly an
10
    administrative note. At the start of today's session,
    Your Honor, there were 12 members of the media in the
11
12
    media operations center, one stenographer, and the public
13
    affairs office will be able to accommodate the hot spot
14
    being with the stenographer starting today. Also, the
15
    overflow trailer as of the end of this previous recess or
16
    at the end of the session, going into the recess, was not
    being used.
17
                 The spectator area in the court-martial
18
    presently is not at full capacity.
19
                 THE COURT: Thank you. Cross examination.
20
                CROSS EXAMINATION BY MR. TOOMAN:
21
         Q.
                Good morning, Mr. Johnson.
```

- 1 A. Good morning.
- Q. Mr. Johnson, I want to start just by talking a
- 3 little bit about your process when you're doing a
- 4 forensic analysis. When you do that analysis you're
- 5 looking for clues and leads, correct?
- A. Yes, sir.
- 7 Q. And ultimately, after your analysis is over,
- 8 you're going to create a report?
- 9 A. Yes, sir.
- 10 Q. And anything that's important you're going to
- 11 note in that report, correct?
- 12 A. Yes, sir.
- Q. I want to talk about the chats that you
- 14 discussed on direct examination along with, between PFC
- 15 Manning and pressassociation.
- 16 A. Okay, sir.
- 17 Q. You went through those chats line by line,
- 18 correct?
- 19 A. I believe so, sir.
- Q. Read them in their entirety?
- 21 A. Yes, sir.

You were looking for leads and clues within 1 Q. 2 that document? 3 Α. Yes, sir. You would agree with me that anywhere in that 4 Q. document is PFC Manning ever asked to send anything to 5 pressassociation? 6 I don't recall, sir. I don't believe so. 7 Α. You don't recall as in he wasn't asked or 8 0. you're not sure? 10 I'm not sure, sir. I don't recall specifics. Α. I'll retrieve prosecution exhibit 123. 11 Q. Hand this to the witness. I know it's 12 13 lengthy, Mr. Johnson, but I'll ask you to look through 14 the entire chat and let me know if you see any instance 15 where pressassociation asks PFC Manning to send them 16 something. 17 And we would ask the government if they are 18 willing to stipulate to this to speed this along without 19 having Mr. Johnson need to read through the entire chat. 20 MR. MORROW: No, Your Honor. 21 THE COURT: All right. The government's not

- 1 willing.
- 2 A. No, sir, I don't see anything that would
- 3 appear to be a direct request.
- 4 Q. Okay. Thank you.
- You would also agree with me, now that you've
- 6 reviewed the entire document, that at no point is PFC
- 7 Manning asked by pressassociation, hey, do you have
- 8 access to this, or do you have access to that?
- 9 A. I don't see any direct knowledge of that, sir,
- 10 no.
- 11 Q. So they never asked him, hey, Brad, could you
- 12 get us this thing?
- 13 A. No, sir.
- 14 Q. There's no discussion in that chat of a most
- 15 wanted list, is there?
- 16 A. No, sir.
- 17 Q. There's no reference to that at all either by
- 18 pressassociation?
- 19 A. No, sir, I don't believe so.
- 20 Q. And my client never references a most wanted
- 21 list?

- 1 A. No, sir.
- Q. Now, PFC Manning and pressassociation do talk
- 3 about a number of classified documents in those chats,
- 4 correct?
- 5 A. Yes, sir.
- 6 Q. They talk about the Iraq and Afghanistan
- 7 databases?
- 8 A. The CIDNE databases, yes, sir.
- 9 Q. And through your forensic examination you
- 10 determined that PFC Manning gave those SigActs, the
- 11 contents of those databases, to WikiLeaks around 3
- 12 February, is that correct?
- 13 A. Could you be more specific, sir?
- 14 Q. Sure. Over the course of your forensic
- 15 examination you all were able to determine when PFC
- 16 Manning gave certain items to WikiLeaks, correct?
- 17 A. I have evidence that information was sent, not
- 18 specific information.
- 19 Q. Okay. Did you have any evidence that the
- 20 CIDNE databases or the contents of the CIDNE databases
- 21 were sent from PFC Manning to WikiLeaks?

- A. I don't recall -- can you be more specific, specifically what you're asking for?
  - Q. Sure. One of the charges against my client is that he downloaded the SigActs from both the Iraq and the Afghanistan CIDNE databases and then provided those documents to WikiLeaks.
- 7 A. Correct.

4

5

6

- Q. Did your forensic examination uncover any evidence of PFC Manning actually getting those things?
- 10 A. I don't have the contents of information to verify whether it was CIDNE or not.
- Q. Okay. Is there any evidence of PFC Manning getting SigActs, regardless of where they came from?
- A. The same thing, sir. I don't have contents to say whether it was a SigAct or anything else.
- Q. Okay. Do you have any forensic evidence that

  he gave a file called Iraq events or a file titled

  similarly?
- 19 A. No, sir.
- Q. Okay. Did you have any forensic evidence of him having sent a cable having to do with Iceland to

## 1 WikiLeaks?

- 2 A. No, sir, beyond the discussion in the chat.
- Q. Only the discussion in the chat. Okay. And
- 4 what about Guantanamo Bay detainee assessment briefs?
- 5 A. Again, sir, beyond the chat, no direct
- 6 contact.
- 7 Q. Okay. So in that chat my client talked about
- 8 the SigActs, he talked about a single Department of State
- 9 cable, correct?
- 10 A. Specifically the one, yes, sir.
- 11 Q. Reykjavik?
- 12 A. Yes, sir.
- Q. And he also talked about detainee assessment
- 14 briefs.
- MR. MORROW: Objection, Your Honor. The
- 16 chats are not the SigActs.
- 17 THE COURT: Captain Tooman.
- 18 MR. TOOMAN: Mr. Johnson did the --
- 19 THE WITNESS: I don't recall the word SigAct
- 20 being in this contact, sir.
- 21 BY MR. TOOMAN:

- 1 Q. Do they talk about the war logs?
- A. Not by that term, no, sir.
- Q. What classified information is referenced in
- 4 the chats? I believe you testified on direct that there
- 5 was a reference to Iraq and Afghanistan.
- A. Yes, sir.
- 7 Q. What was that reference?
- 8 A. I'd have to refer to specifics, sir.
- 9 Q. Please do.
- 10 A. Sir, we have arrest information related to
- 11 Tigris or Tigris, that would be in that area.
- 12 Q. Okay.
- 13 A. Specifically, sir, we have other references to
- 14 Afghanistan. I'm not sure specifically what you're
- 15 looking for.
- 16 Q. Okay. So there are no references to the
- 17 SigActs in those chats?
- 18 A. There's no reference to that term, sir.
- 19 Q. Okay. Is there any reference to the Farah
- 20 video in those chats?
- 21 A. I don't recall.

```
No, sir, I don't believe so.
1
2
                Is there any reference to the Granahi air
         Q.
3
    strike in that chats? Same thing, two different names.
                I don't recall that being in here, sir. I can
4
         Α.
    review it.
5
6
         Q.
                Please do.
7
                 THE COURT: Captain Tooman, is this going to
    have a point? I can read the chats.
8
9
                 MR. TOOMAN: Yes, ma'am, the point is that
    they're not in there, and we've also asked Mr. Johnson
10
    what the dates are of those chats.
11
                 THE WITNESS: They are in March 2010.
12
13
    BY MR. TOOMAN:
14
         Q.
                Specifically, what's the range, is the range
    of 5 March to 18 March?
15
                5 March to -- did we have 18 March? Yes, sir.
16
         Α.
                 MR. TOOMAN: I'll retrieve that exhibit.
17
18
                  (INAUDIBLE).
19
                 THE WITNESS: No, sir.
20
                 MR. TOOMAN: I'll retrieve prosecution
    exhibit 123.
21
```

```
1
    BY MR. TOOMAN:
 2
                 Now, you spoke on direct about volume mounting
         0.
 3
    data, correct?
 4
                 Uh-huh.
                          Yes, sir.
         Α.
                 And that's evidence of a CD being burned?
 5
         Q.
                 CD, other removable, some media of some sort.
 6
         Α.
                 So it could be a flash drive?
 7
         Q.
                 It could be, yes, sir.
 8
         Α.
 9
         Q.
                 A SD card?
10
                 Yes, sir.
         Α.
                 External hard drive?
11
         Q.
                 Yes, sir.
12
         Α.
13
         Q.
                 In some fashion, data is being transferred
    from the Macintosh to another medium?
14
15
         Α.
                 Yes, sir.
                 We'd retrieve prosecution exhibit 127, please.
16
         Q.
17
                  Permission to publish, ma'am?
18
                  THE COURT: Go ahead.
```

Q. I'd like to focus your attention on line 49.

Yes, sir.

19

20

Q.

Α.

Mr. Johnson, can you see that okay?

- 1 What does that line tell you?
- 2 A. That would indicate that a file potentially
- 3 named Farah dot zip may have come from a volume attached
- 4 to this machine using the name of 100411 underscore 918
- 5 or, excuse me, 0918 -- 0918.
- 6 Q. Okay. And what the name of that volume
- 7 suggests is that that file, Farah dot zip, was put on
- 8 another medium on April 11, 2010, correct?
- 9 A. April 11? Yes, sir.
- 10 Q. And at 0918 in the morning?
- 11 A. Yes, sir. Depending on the timeframe.
- 12 Q. Now, you're not able to tell what is actually
- 13 in that file, can you?
- 14 A. No, sir.
- 15 O. You were unable to recover that?
- A. No, sir, we were not.
- 17 Q. What is a zip file, Mr. Johnson?
- 18 A. A zip is an archive, compressed or an
- 19 archiving function.
- 20 Q. Typically why would one use that sort of file?
- 21 A. To have additional files, to consolidate one

- file or multiple into a single file that can be easily moved around, transferred, stored.
- Q. Okay. And you would agree with me, I think, that another use of a zip file is to compress? If you have big files, you can compress them into one using the zip function, correct?
- 7 A. Yes, sir.
- 8 Q. So you would agree with me that it's possible 9 that inside that file are documents that take up a lot of 10 space?
- 11 A. Yes, sir.
- 12 Q. Or files that take up a lot of space?
- A. Yes, sir.
- Q. Removing prosecution exhibit 127 from the projector and returning it to court reporter.
- 16 I'd like to retrieve prosecution exhibit 41.
- 17 Permission to publish, ma'am?
- 18 THE COURT: Proceed.
- Q. You spoke about this email on direct. This is
  an email between my client and a person named Eric
  Schmiedel, correct?

- 1 A. Yes, sir.
- Q. Now, within this video there's classified
- 3 information that's discussed?
- A. I'm sorry. Within the video?
- 5 Q. I'm sorry. Within this email.
- A. I couldn't tell you whether the content of
- 7 this email is classified.
- 8 Q. Okay. Does it reference what you understand
- 9 to be classified material?
- 10 A. State department cables, yes, sir.
- 11 O. It also references an entire database of
- 12 events for the Iraq war?
- A. Yes, sir.
- Q. So that would be the SigActs, is that what you
- 15 understand that to be?
- 16 A. I don't know what those incident reports are,
- 17 sir.
- 18 Q. Okay. It also talked about the Apache video,
- 19 is that correct, collateral murder?
- 20 A. Yes, sir.
- Q. Move it up here a little bit.

- Sorry, sir. The screen's a little blurry. 1 Α. 2 Yes, sir. Down in section three. 3 Q. Down in section three there's discussion of 4 the Apache video? 5 Yes, sir. Well, collateral murder. Α. Collateral murder? 6 Q. 7 Yes, sir. Α. Do you understand those videos to be the same 8 Q. 9 thing? 10 Yes, sir. Α. I've removed the email from the overhead. 11 Q. 12 Mr. Johnson, you'd agree with me there's no 13 other documents or videos referenced in that email, 14 correct? 15 Α. I don't recall seeing anything else in there, sir. 16 17 Okay. I'm going to hand this to the witness. Q.
- 20 A. No, sir.

Farah video in that email?

18

19

Q. What are the dates of that email chain?

Mr. Johnson, is there any reference to a

- 1 A. Can you be more specific, sir?
- Q. Sure. My understanding of that document is
- 3 it's a chain of emails between PFC Manning and Eric
- 4 Schmiedel. When was the first email sent?
- 5 A. May 19.
- Q. And when was the last email sent, the most
- 7 recent one?
- 8 A. May 20.
- 9 Q. Thank you, Mr. Johnson.
- 10 Mr. Johnson, you spoke in your examination of
- 11 the unallocated clusters, correct?
- 12 A. Yes, sir.
- 13 Q. And what we understand the unallocated
- 14 clusters to be are basically that's where, when you
- delete something, that's where it goes?
- A. Where it remains, yes, sir.
- 17 Q. And it would remain there until it was
- 18 overwritten, correct?
- 19 A. That's correct.
- Q. And if it's overwritten, then it's pretty much
- 21 gone forever?

- 1 A. Not pretty much, sir. It is gone.
- Q. It is gone. Okay.
- Now, within the unallocated clusters, you
- 4 can't associate a date with something, correct?
- 5 A. Not directly, sir, no.
- Q. So you don't know when the file was deleted?
- 7 A. No, sir.
- 8 Q. Can't associate a time either?
- 9 A. No, sir.
- 10 Q. All you know is that this file is now in the
- 11 unallocated clusters?
- 12 A. The contents are, yes, sir.
- Q. Sorry.
- 14 A. The content. It may be a fragment of a file.
- 15 Q. Okay. So it could be a partial file?
- 16 A. Correct.
- Q. So, for example, if it were a picture, you
- 18 might only see half a picture?
- 19 A. Correct.
- Q. Now, when you were searching the unallocated
- 21 clusters, you were again searching for any sort of clues,

- 1 correct?
- A. Yes, sir.
- Q. And one of the things you were searching for were any references to WikiLeaks?
- 5 A. Sure.
- Q. Because WikiLeaks was implicated in this
  investigation, you wanted to find every instance where
  WikiLeaks was talked about?
- 9 A. Sure.
- 10 Q. Okay. You found several, didn't you?
- 11 A. Yes, sir.
- 12 Q. You found over a hundred instances of the
- WikiLeaks page in the unallocated clusters?
- 14 A. I'd have to refer to my report. It sounds
- 15 reasonable.
- Q. Okay. You found some JPEGs, a JPEG being a picture file?
- A. Yes, sir, (INAUDIBLE). Yes, sir.
- 19 Q. You didn't find any evidence of what's known
- 20 as a WikiLeaks most wanted list in the unallocated
- 21 clusters, did you?

- 1 A. No, sir.
- Q. And you didn't find that in the allocated
- 3 clusters either?
- A. No, sir.
- 5 Q. So on PFC Manning's computer, whether in the
- 6 allocated space or in the unallocated space, no reference
- 7 to the WikiLeaks most wanted list?
- 8 A. No, sir.
- 9 Q. That's something you certainly would have
- 10 noted had you found it?
- 11 A. Yes, sir.
- 12 O. You also were able to look at or recover other
- 13 websites that PFC Manning would have visited?
- 14 A. Yes, sir.
- 15 O. None of those websites were associated with
- 16 terrorism?
- 17 A. No, sir.
- 18 Q. They weren't associated with a hatred of
- 19 America or anti-American beliefs?
- 20 A. No, sir.
- 21 Q. Now, sitting in the unallocated clusters you

- found several references to the WikiLeaks submission page, correct?
- A. Yes, sir.

7

8

- Q. And, again, you can't associate a date or a time with those pages, is that correct?
  - A. I cannot determine the dates and times of the page we have fragments. However, there do appear to be dates and times in the vicinity of those that appear to be possibly content on that page.
- Q. Sure. So you don't know when that page ended up in the unallocated clusters, but when you look at the page itself there are some clues?
- 13 A. There are clues.
- 14 O. To the date?
- 15 A. Yes, sir.
- Q. And on the submission page you see what
  appears to be submissions by PFC Manning to the WikiLeaks
  web page on a couple different dates, correct?
- 19 A. I believe so, sir. I'd have to verify that.
- Q. Okay. One of those days was the 11th of April, 2010?

I don't remember specific dates, sir. 1 Α. 2 sounds reasonable. 3 Q. Is that about what you remember? It was April, sir. Again, that sounds right, 4 but I don't remember specifically. I need to refer. 5 6 Q. Okay. Just a moment, please. 7 MR. TOOMAN: Your Honor, Mr. Johnson's report is, his report of PFC Manning's Macintosh computer is a 8 classified document. It hasn't been marked. We have it 10 If we could take a brief recess we can get that here. document, have it marked so Mr. Johnson can refer to it. 11 12 THE COURT: In the panel box? 13 MR. TOOMAN: Yes, ma'am. Of course. 14 THE COURT: How long do you need? 15 MR. TOOMAN: Five minutes. THE COURT: All right. Why don't we make it 16 17 the regular ten. We'll reconvene at 11:15. 18 (BRIEF RECESS.) 19 THE COURT: Let the record reflect all parties present when the court recessed are again present 20 in court. The witness is in the witness box. 21

```
1
                 Captain Tooman, are you ready?
2
                 MR. TOOMAN: Yes, ma'am. For the record, Mr.
    Johnson has defendant's exhibit Juliette for
3
4
    identification.
5
                 THE COURT: I thought you were getting a
    different exhibit. Juliette is what you were
6
7
    referencing?
                 MR. TOOMAN: Yes, ma'am.
8
    BY MR. TOOMAN:
10
                Mr. Johnson, if you could please take a look
         Q.
    at that exhibit and just tell us what it is.
11
                This is a copy of my forensic --
12
         Α.
13
                 THE COURT: Okay. Now you're sitting way far
14
    away from me and I'm going to have a real difficult time
15
    hearing you.
16
                 THE WITNESS:
                                Sorry.
17
                 THE COURT: Can you say what that was again?
18
                 THE WITNESS: This is a copy of my forensic
19
    report from his Mac computer.
20
                 THE COURT: Thank you.
    BY MR. TOOMAN:
21
```

- 1 Q. How do you know that that's your forensic 2 report?
- A. It is on our structure, it has my signature copy attached to it. It appears to be complete.
- Q. How did you go about creating that report, Mr.
  6 Johnson?
- 7 A. I'm sorry, sir. Could you be more specific?
- Q. Sure. What was the process you followed when you created that report?
- 10 A. It was derived during the course of my
  11 investigation. It includes findings and is ultimately a
  12 word document converted into a WPDF format.
- Q. Now, Agent Johnson, does that document, I
  asked you a question before we recessed, about
  submissions to WikiLeaks.
- 16 A. Yes, sir.
- Q. And would you agree with me that there was evidence in unallocated clusters of a submission to WikiLeaks on 11 April 2010?
- 20 A. I'll refer to the report, sir, for the date.
- 21 Q. Okay.

- 1 A. That would be April 10, 2010, sir.
- Q. Okay. So submission, what appears to be a
- 3 submission to WikiLeaks on April 10?
- 4 A. Yes, sir.
- Q. Are there any other days where there appear to
- 6 be submissions to WikiLeaks in April 2010?
- 7 A. April 11.
- Q. Okay.
- 9 A. And April 12.
- 10 Q. Okay. Are there any other, did you recover
- any other evidence in the unallocated clusters of
- 12 WikiLeaks submissions?
- A. I don't believe so, sir, no.
- 14 Q. You can head back to the witness stand. I've
- 15 retrieved the exhibit.
- 16 THE COURT: That's defendant's exhibit
- 17 Juliette for identification, right?
- 18 MR. TOOMAN: Yes. And actually we would
- 19 offer this as defendant's exhibit Juliette in the record.
- MR. MORROW: Objection.
- 21 THE COURT: What's your objection?

```
MR. MORROW: Hearsay.
1
 2
                 MR. TOOMAN: These are the statements of the
3
    witness. He authenticated it.
                 MR. MORROW: They would be out of court
4
    statements offered to prove the truth of the matter
5
6
    asserted.
                 THE COURT: All right. Sustained.
7
                 MR. TOOMAN: Would offer it under 803.6,
8
    created in the ordinary course of Mr. Johnson's business.
10
                 THE COURT: Government.
11
                 MR. MORROW: One moment, Your Honor.
                 Your Honor, I don't believe the defense has
12
13
    laid a foundation for the business record exception.
14
                 THE COURT: Well, that's true. Want to
    continue on with this witness?
15
16
                 MR. TOOMAN: Yes, ma'am.
17
    BY MR. TOOMAN:
18
         Q.
                Mr. Johnson, can you explain for the court
    what that document was and why it was created?
19
20
                It's the forensic report that I developed
         Α.
21
    during the course of my investigation.
```

- 1 Q. How many of those would you say you've created 2 in your career?
- 3 A. I do not know, sir. A number.
- 4 Q. Would it be a lot?
- 5 A. A fair number, sir.
- 6 Q. Hundreds?
- 7 A. Probably not, sir.
- 8 Q. Is that something that you create every time
  9 you do a forensic examination of a computer or some piece
  10 of digital media?
- 11 A. Not necessarily, sir, no.
- Q. Okay. Did you do that as part of your duties with respect to this investigation?
- 14 A. Yes, sir.
- MR. TOOMAN: One moment, please.
- Q. Mr. Johnson, are you required to make that report as part of your -- as part of this investigation?
- 18 A. Yes, sir.
- Q. What did you do with it once you created it?
  Where did you store it?
- 21 A. Could you be more specific, sir?

1	Q. How did you store that document once you
2	created it?
3	A. It's a digital document stored on our closed
4	and classified systems.
5	Q. Is that what you all do with every forensic
6	examination report that you create?
7	A. Yes, they would be on the appropriate systems.
8	MR. TOOMAN: Your Honor, we would re-offer
9	defendant's exhibit Juliette under the business records.
10	THE COURT: May I see defendant's exhibit
11	Juliette?
12	MR. TOOMAN: Yes, ma'am.
13	THE COURT: Is this report exclusively your
14	examination of that computer? Did you talk to anybody
15	else? Is there, are there any statements from other
16	people in this report?
17	THE WITNESS: Yes, ma'am.
18	THE COURT: There are statements from other
19	people in this report.
20	THE WITNESS: Statements, ma'am?
21	THE COURT: Did you interview anybody?

```
THE WITNESS: No, sir. No, ma'am.
1
                                                      Pardon
2
    me.
                 THE COURT: Government.
 3
                 MR. FEIN: Ma'am, if I may.
 4
                 THE COURT: Yes.
5
                 MR. FEIN: A few issues, Your Honor.
6
7
    under 803.6, this document clearly was created
    specifically for this court-martial, not necessarily in
8
    the regularly conducted business of Mr. Johnson.
    also cumulative with his testimony.
10
                 If the defense counsel wants to refresh his
11
12
    recollection or use this as past recollection recorded,
13
    the witness can testify off of the document, but not in
14
    lieu of or the document substituting for the actual
15
    in-court testimony and then while they're here. So it's
16
    not only hearsay, not falling under 803.6, but it's also
17
    cumulative to his testimony of an in-court witness.
18
                 THE COURT: All right. Well, the cumulative
19
    I'm going to overrule.
20
                 The MRE 803.6, is this a forensic laboratory
21
    report?
```

- THE WITNESS: Yes, ma'am, you could treat it 1 2 as that, yes, sir. Yes, ma'am. 3 THE COURT: Government. MR. FEIN: Yes, ma'am. Although it is a 4 forensic laboratory report, again, it was made solely for 5 the purposes of this litigation. 6 7 THE COURT: I'm going to overrule the objection. It's made as part of the regular course, 8 regularly conducted business activity of this entity. Defendant's exhibit Juliette is admitted. 10 BY MR. TOOMAN: 11 12 0. Mr. Johnson, were you able to tell -- again, 13 we're still talking about the WikiLeaks submissions from 14 the unallocated clusters. Were you able to tell if those
- A. There's no mention of the words upload complete that I would interpret as a success.

submissions were successful? Was the submission

15

16

completed?

- Q. Was there any evidence that WikiLeaks actually got it?
- 21 A. I couldn't say, sir. That would not be

- 1 available on this computer.
- Q. In the course of your investigation, did you
- 3 uncover any evidence of WikiLeaks releasing anything
- 4 related to Farah?
- 5 A. I did not, no.
- 6 Q. Now, you also did a search for, on the
- 7 computer for Farah, correct?
- 8 A. Yes, sir, I believe so.
- 9 Q. And you found several files, again, in the
- 10 unallocated clusters, and they were in the location users
- 11 slash BManning slash desktop slash Farah slash Farah.
- 12 A. That was references to it. I don't believe
- 13 those were actual files we found.
- Q. What was in there?
- 15 A. I don't recall, sir. I don't recall the
- 16 specific names, sir.
- 17 Q. Okay. I'm going to hand the witness
- 18 defendant's exhibit Juliette. If you would please move
- 19 to the panel box.
- 20 MR. FEIN: Your Honor, objection. If it's
- 21 already admitted, this would be cumulative.

- THE COURT: Major Fein, the government has been doing that throughout the trial.
- MR. FEIN: Yes, ma'am.
- 4 BY MR. TOOMAN:
- Q. I believe this would be on the same page you were just looking at, Mr. Johnson.
- 7 A. Thank you, sir. Which I have to find again.
- Q. I believe it's page 67 or page 66.
- 9 A. Thank you, sir.
- 10 Can you repeat your question, sir?
- 11 Q. Sure. You would agree with me that you found 12 references to Farah in a location that was users slash
- 13 BManning slash desktop slash Farah slash Farah?
- 14 A. The slash Farah, sir, the rest of that is the
- 15 file name. Users slash BManning slash desktop slash
- 16 Farah.
- 17 Q. Okay. Just one Farah in that location?
- 18 A. Yes, sir.
- 19 Q. And in that file you found seven files titled
- 20 Farah, correct?
- 21 A. Yes, sir, I believe so.

- Q. And they were titled Farah dot part one and then they all have that name, correct, with the -
  A. That's correct.
- Q. So Farah dot part 1 through part 7?
- 5 A. Yes, sir. With dot RAR on the end of it.
- 6 Q. With dot RAR. Okay.
- And you don't know when those documents arrived in that location, do you?
- 9 A. No, sir.
- 10 Q. But you could say that those documents got there after 31 January, correct?
- 12 A. In reference to these documents, yes, sir.
- Q. Well, the unallocated space was wiped on 31
  January, correct?
- 15 A. Yes, sir.
- Q. So anything that is in the unallocated clusters must have arrived there after 31 January, right?
- 18 A. Yes, sir.
- Q. Now, you also found several documents related to Farah that in your examination were identical to files found on CENTCOM servers, correct?

- 1 A. Could you be more specific, sir?
- Q. Sure. You found 54 pictures. And before you
- 3 refer to the document, if you can answer from your
- 4 memory, and if not, then refer to the document. Do you
- 5 recall finding 54 pictures in the unallocated space that
- 6 had identical hash values as pictures found on the
- 7 CENTCOM server?
- 8 A. Yes, sir, I believe so.
- 9 Q. You also found one video that has the
- 10 identical hash value to a video found on the Farah
- 11 server, correct?
- 12 A. I believe so. I don't recall, sir.
- Q. Okay. Well, please look and verify that.
- 14 A. Yes, sir.
- THE COURT: What was the question again, the
- 16 last question?
- 17 Q. Yes, ma'am.
- 18 Mr. Johnson, in the unallocated clusters you
- 19 found a video that had the same hash value as a video
- 20 that you found on the CENTCOM server, correct?
- 21 A. They were contained within a recovered RAR

- 1 file, yes, sir.
- 2 O. And that recovered RAR file was associated
- 3 with Farah, correct?
- A. Yes, sir.
- 5 Q. Okay. So you would assume that that video
- 6 file has something to do with Farah?
- 7 A. Yes, sir.
- Q. Particularly since the hash value of the video
- 9 on PFC Manning's computer matched the hash value of a
- 10 video that you found within the Farah folders on the
- 11 CENTCOM servers?
- 12 A. Agent Shaver found all the files on CENTCOM.
- We compared them.
- 14 Q. And you didn't make note of the actual file
- 15 type, did you?
- 16 A. File type? No, sir.
- 17 Q. Just it's a video file?
- 18 A. A video file, yes, sir.
- 19 Q. And you agree with me that there are multiple
- 20 types of formats that video files could be in, correct?
- 21 A. Yes, sir.

- 1 Q. There's WMV, that's a type of movie file?
- A. Yes, sir.
- 3 Q. What are some other ones?
- A. MP4, DVI. There's a large number, sir.
- Q. And you all didn't know what type of file it
- 6 was?
- 7 A. No, sir, I did not.
- Q. And you didn't make a note of the file name on
- 9 the Farah server that the file on PFC Manning's computer
- 10 matched, correct?
- 11 A. No, sir, I did not.
- 12 O. Just one of the videos on the CENTCOM server
- 13 matched a video in PFC Manning's unallocated clusters?
- 14 A. Yes, sir.
- Q. So we don't know what video that is?
- 16 A. No, sir, I do not recall.
- 17 Q. But you would agree with me that that video
- 18 must have arrived in the unallocated clusters after 31
- 19 January?
- 20 A. Yes, they were filed in there after 31
- 21 January.

- Q. And you didn't find any references to the Farah video in the allocated clusters?
- A. No, sir, I don't believe so.
- Q. Okay. I'm going to retrieve defendant's exhibit Juliette. And Mr. Johnson, can you retake the witness chair?
- 7 Mr. Johnson, throughout your investigation 8 you talked about you looked at everything on PFC 9 Manning's computer, right?
- 10 A. Define everything, sir.
- Q. You looked at every bit and byte on that computer, and you looked at it for evidence?
- 13 A. I've looked at the contents, sir. I can't say
  14 we've examined every bit and byte.
- Q. Okay. Well, you had a forensic image of it which is an exact copy, correct?
- 17 A. Yes, sir.
- Q. And within that exact copy you conducted searches?
- 20 A. Yes, sir.
- 21 Q. And those searches looked at the entire

## **UNOFFICIAL DRAFT - 6/12/13 Morning Session**

```
89
1
    computer?
 2
         Α.
                 Yes, sir.
 3
         Q.
                 The allocated space and the unallocated space?
 4
                 Yes, sir.
         Α.
 5
                 That included chats which we've talked about,
         Q.
 6
    correct?
                 Yes, sir.
 7
         Α.
                 That included emails?
 8
         Q.
 9
         Α.
                 Yes, sir.
10
         Q.
                 You saw no references on PFC Manning's
    personal Macintosh to Jason Katz, did you?
11
                 No, sir, I did not identify Katz.
12
         Α.
13
         Q.
                 There were no emails between PFC Manning and
    an individual named Jason Katz?
14
                 No, sir, I don't believe so.
15
         Α.
16
                 No chats?
         Q.
17
                 No, sir.
         Α.
18
         Q.
                 No websites that you associated with Jason
19
    Katz?
20
                 No, sir.
         Α.
                 No connection whatsoever between PFC Manning
21
         Q.
```

- 1 and Jason Katz?
- 2 A. Not that I identified, sir.
- Q. Okay. You also didn't find any financial
- 4 transactions that would have suggested to you that PFC
- 5 Manning was paid for anything he gave to WikiLeaks?
- 6 A. No, sir.
- 7 Q. There were no large sums of money that were
- 8 transferred to PFC Manning?
- 9 A. No, sir.
- 10 Q. You spoke on direct about the global address
- 11 list, correct?
- 12 A. Yes, sir.
- 13 Q. I want to retrieve prosecution exhibit 122,
- 14 please.
- Ma'am, permission to publish.
- 16 THE COURT: Go ahead.
- 17 Q. Now, Mr. Johnson, you testified that this was
- 18 what you would call a tasker, correct?
- 19 A. Yes, sir.
- 20 Q. Could you tell what format this document was
- 21 in?

- 1 A. It's raw text, sir.
- 2 Q. A text file. So that would have been
- 3 something -- could you tell how it got on the computer?
- A. No, sir.
- 5 Q. But this is the sort of thing, so there's no
- 6 evidence that would suggest someone sent this to PFC
- 7 Manning?
- 8 A. I cannot determine that, sir.
- 9 Q. Okay. So you would agree with me that it's
- 10 quite possible that this is a document PFC Manning
- 11 created himself?
- 12 A. It's possible, sir.
- Q. And are you familiar with the format of that
- 14 document?
- 15 A. Can you be more specific, sir?
- 16 Q. Does that look like a military sort of format
- 17 for a document?
- 18 A. It looks to me to be similar, yes, I'll say
- 19 similar.
- 20 Q. Okay. Now, you would agree with me that the
- 21 objective portion of this is blank?

- 1 A. Yes, sir.
- Q. It doesn't say send to WikiLeaks?
- A. No, sir.
- Q. It doesn't say anything?
- 5 A. Doesn't say anything.
- 6 Q. Returning prosecution exhibit 122.
- Now, we talked about the WikiLeaks submission pages and the only WikiLeaks submission pages you found had to do with Farah, correct?
- 10 A. With the Farah dot RAR files, yes, sir.
- Q. Right. There were no WikiLeaks submission pages that suggested that PFC Manning sent something to
- 13 WikiLeaks?
- 14 A. No, sir.
- Q. And in fact, you found the global address list
- or what appeared to be the global address list in the
- 17 unallocated clusters?
- 18 A. Yes, sir.
- 19 Q. And that means it was deleted?
- 20 A. Yes, sir, deleted content. It's there
- 21 somehow.

- Q. Okay. It had to have been -- is it possible to put something on unallocated clusters?
- A. Possible, but it would require extraordinary work.
- Q. Okay. In all likelihood it was something that was on the computer in the allocated space and then the user pushed delete?
- 8 A. Yes, sir.
- 9 Q. Okay. Now, you're a computer expert. Do you ever challenge yourself with things related to computers
  11 just to see if you can do it?
- 12 A. Can you be specific?
- Q. Yeah. Have you ever just been at a computer and thought I wonder if I could do this, and then you tried to do it?
- 16 A. Yes, sir.
- Q. Are you aware that at the time the global
  address list was downloaded my client was no longer
  working as an intelligence analyst, he was working in a
  supply room?
- 21 A. I'm not familiar with the timeframe on that,

- 1 sir.
- Q. Okay. Do you think it's possible that if PFC
- 3 Manning were in a supply room he might --
- THE COURT: Overruled. I'm sorry. I mean
- 5 sustained. No. That's speculation.
- 6 Q. I'm going to continue talking a little bit
- 7 about the GAL. You said it appeared to be a global
- 8 address list, correct?
- 9 A. Yes, sir.
- 10 Q. You would agree with me that there is someone
- 11 who controls the global address list?
- 12 A. Can you specify, sir?
- Q. Sure. There would be someone within DOD who
- 14 could tell you exactly who was on the global address
- 15 list, correct?
- A. At some particular point in time, yes, sir.
- 17 Q. Sure. You could go to someone and you could
- 18 say, hey, as of June 11, what is the global address list?
- 19 A. I don't know if they could give you a specific
- 20 point in time, but yes.
- 21 Q. Okay. Someone could print it out and say here

- 1 are the names that are the global address list?
- A. Yes, sir.
- Q. Okay. Did you all do that as part of your investigation, ask someone for the actual global address
- 5 list?
- A. I do not, sir, that would be outside the scope
- 7 of forensics.
- 8 Q. So you all didn't compare the global address
- 9 list that you found or what appeared to be a global
- 10 address list in the unallocated space, you never compared
- 11 that to an actual global address list?
- 12 A. I did not, no, sir.
- Q. Okay. Mr. Johnson, would you agree with me
- 14 that Iraq is a very challenging environment for
- 15 electronics?
- 16 A. Yes, sir.
- 17 Q. It's very hot?
- 18 A. Yes, sir.
- 19 Q. Very dusty?
- 20 A. Yes, sir.
- Q. Sandy?

- 1 A. Yes, sir.
- Q. It's difficult for a computer?
- 3 A. Yes, sir.
- Q. So when one's having computer problems

  something that they can do to alleviate those problems is

  to wipe the machine, correct, just start over?
- 7 A. Can you be more specific, sir?
- Q. Sure. If you're having performance problems
  with your computer, one of the things that you could do
  would be I'm just going to wipe this, I'm going to start
  over?
- A. Sure. But that would not have anything to do with physical environment.
- Q. Okay. But it could correct some of the problems that your computer was having?
- 16 A. Possibly, sir.
- Q. And there are a lot of reasons why people wipe their machines, correct?
- 19 A. Yes, sir.
- Q. You testified that PFC Manning reinstalled his operating system on 25 January 2010?

- Yes, sir. 1 Α.
- 2 He wiped the unallocated space or cleaned the Q. 3 unallocated space on 31 January 2010?
- Yes, sir. 4 Α.
- Now, PFC Manning is charged with giving the 5 Q. Apache air strike video to WikiLeaks, he's charged with
- 7 having done that between 15 February and April 5, 2010.
- Is there any evidence that PFC Manning wiped his computer 8
- in that time?

- 10 I don't recall, sir. I don't believe so. Α.
- 11 Q. PFC Manning is charged with giving SigActs to
- 12 WikiLeaks. Is there any evidence that he wiped his
- 13 machine in February of 2010?
- 14 Again, sir, I don't recall a specific date, Α.
- 15 but I don't believe there was anything, no.
- 16 Okay. He didn't wipe his machine in April Q.
- 2010? 17
- 18 Α. I don't recall. I'd need to refer to the log
- file, sir, but I don't recall being there, no. 19
- 20 I believe you testified that there was only Q.
- 21 one instance of him wiping unallocated space, right?

- 1 A. Yes.
- Q. And he didn't wipe it in April?
- A. Again, I have to refer to the log to confirm,
- 4 but I don't recall, sir, no.
- 5 Q. Could I have prosecution exhibit 125, please?
- 6 Handing the exhibit to Mr. Johnson.
- 7 Mr. Johnson, would you please review those
- 8 logs and tell me if PFC Manning wiped his machine, if
- 9 there's any evidence of PFC Manning wiping his machine in
- 10 February of 2010?
- 11 A. Yes, there is.
- 12 Q. What did he do?
- A. He erased his machine on 2-11, 2010, free
- 14 space.
- 15 Q. And what's the free space?
- 16 A. The unallocated clusters. I do stand
- 17 corrected.
- 18 THE COURT: What was the date of that?
- THE WITNESS: 2-11, ma'am.
- Q. Any other instances?
- 21 A. However, sir, I will have to annotate that it

- 1 was stopped.
- 2 Q. So it was not completed?
- 3 A. That's correct.
- 4 Q. Any other instances?
- 5 A. No, sir.
- Q. Retrieve the exhibit. So the one in February was stopped, that means that nothing was wiped, correct?
- A. Only the first, whatever was wiped in the first two minutes, sir.
- Q. So two minutes. And I think you testified on direct that when PFC Manning did a wipe before it took almost four hours?
- A. Three hours, something, yes, sir.
- 14 O. 3 hours and 40 minutes?
- A. Roughly, sir, somewhere in that range.
- 16 Q. How much gets wiped in two minutes?
- A. It will depend depending on the operating system, hard drive. Very little amount.
- 19 Q. So there's no evidence that PFC Manning wiped
- 20 his computer in any other time in February?
- 21 A. I did not observe any, no.

## **UNOFFICIAL DRAFT - 6/12/13 Morning Session**

	100	_
	100	1
1	Q. Nothing in March?	
2	A. I did not observe any further entries in the	
3	log, sir.	
4	Q. So nothing in April?	
5	A. No, sir.	
6	Q. Nothing in May?	
7	A. No, sir.	
8	MR. TOOMAN: No further questions. Thank	
9	you, Mr. Johnson.	
10	THE COURT: Redirect.	
11	MR. MORROW: May we have a moment, Your	
12	Honor?	
13	THE COURT: Yes.	
14	MR. MORROW: Your Honor, may we have a ten	
15	minute recess, please?	
16	THE COURT: Yes, you may. Special Agent	
17	Johnson, once again, please don't discuss your testimony	
18	or knowledge of the case with anyone during the recess,	
19	okay?	
20	THE WITNESS: Yes, ma'am.	
21	THE COURT: Counsel, may I see you when we	

recess the court for just a brief second? 1 MR. FEIN: Yes, ma'am. 2 3 THE COURT: Court is in recess. (BRIEF RECESS.) 4 THE COURT: Court is called to order. 5 6 the record reflect all parties present when the court last recessed are again present in court. The witness is 7 on the witness stand. Captain Morrow. 8 REDIRECT EXAMINATION BY MR. MORROW: Mr. Johnson, I just have a couple questions. 10 Q. 11 And I want to begin by talking about something Captain 12 Tooman referred to, a WikiLeaks most wanted list. 13 I'm retrieving prosecution exhibit 109 for 14 identification and prosecution exhibit 110. 15 Permission to publish this, ma'am? THE COURT: Yes. 16 BY MR. MORROW: 17 18 Q. Let's start first with prosecution exhibit 109 for identification. Mr. Johnson, I'd just like you to 19 20 read the top of the page there. What does this say? 21 Α. I'm sorry, sir. That's slightly out of focus

102 for me. 1 2 Better? Q. 3 Α. As good as it's going to get, sir. Well --4 Q. I can read that, sir. 5 Α. 6 Q. Does that help? 7 Yes, sir. Α. What does it say? 8 Q. 9 Α. What was the question again, sir? 10 Just read starting with the draft. Q. Draft, the most wanted leaks of 2009, sort. 11 Α. 12 Q. And at the very top of the page what's after 13 sort? That heading line includes the word WikiLeaks. 14 Α. 15 0. And I'm going to move to the bottom of the page. Now, at the very bottom with TTP colon slash slash 16 17 web. What does that, as an examiner, what does that mean 18 when a page has sort of got that line of information at 19 the bottom? What does that indicate to you? 20 It would indicate to me that this was probably Α.

a printed page from a website and that bottom URL would

- 1 be the URL of the website being printed.
- Q. Okay. And now let's just go up and let's look
- 3 at, do you see a box there, has a series of numbers, 23
- 4 Sudan, 24, Syria?
- 5 A. Yes, sir.
- 6 Q. Do you see the United States up there?
- 7 A. Yes, sir.
- Q. Okay. I'm going to flip to the section on the
  United States.
- 10 MR. TOOMAN: Objection, Your Honor.
- 11 Relevance.
- 12 THE COURT: Where are you going with this?
- MR. MORROW: I'm going to a specific thing
- 14 that's on this list that's discussed in the chat logs.
- 15 THE COURT: Overruled.
- 16 BY MR. MORROW:
- 17 Q. Mr. Johnson, I'm showing you page nine of
- 18 prosecution exhibit 109 for ID and beginning with the
- 19 line open source dot gov, can you read just everything
- 20 under there?
- 21 A. From open source dot gov. We have brief, the

- complete CIA open source center analytical database. The database is extensive, unclassified, non-public, but relatively accessible to certain outsiders after jumping through hoops. Despite its name, you need to be
- 6 Q. Keep going.

9

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7 A. Entity. Open source dot gov, and it provides 8 a long URL there, sir.

government official to gain access to it.

- Q. Okay. Now I'm going to publish prosecution exhibit 110. And, again, I'm going to show page nine of that exhibit. And if you could read the open source dot gov section again, please.
- A. Open source dot gov. Brief, the complete CIA open source center analytical database. The database is extensive, unclassified, non-public, but relatively accessible to certain outsiders after jumping through hoops. Despite its name, you need to be government official to gain access to it.
- Q. Would you agree that the last two exhibits that that basically paragraph is basically the same?
  - A. Yes, sir.

- 1 Q. Almost entirely the same?
- 2 A. I'd have to look at them side by side, but it 3 appears to be identical.
- 4 Q. Okay.

6

7

- THE COURT: I'm going to stop you here for just a moment, Captain Morrow. Prosecution exhibit 109 for identification is not admitted pending the motion that's at issue.
- 9 MR. MORROW: I agree, Your Honor.
- 10 THE COURT: So everything that you went
- 11 through with the witness on an unadmitted document,
- 12 should I not admit it, I'm going to disregard everything
- in prosecution exhibit 109 for identification.
- MR. MORROW: I understand, Your Honor.
- 15 BY MR. MORROW:
- 16 Q. I'm retrieving prosecution exhibit 123. And
- 17 Mr. Johnson, I'm going to show you page five of this
- 18 exhibit.
- One moment, Your Honor.
- 20 I'm sorry. Took me a second to find it.
- 21 Mr. Johnson, I'm showing you the top of page

- 1 five of prosecution exhibit 123. Can you read that?
- A. Yes, sir.
- Q. Okay. I want to start from basically the second line down where it says yeah. Can you read down?
- 5 A. The following line, are you referring to just 6 the message text, sir?
- Q. Yeah. Just identify the party who is saying it and then identify what's being said.
- 9 A. Yes, sir. The next line. Pressassociation.
  10 Text reading WL action that were considered totally
  11 radical three years ago are now courted.
- Next line. Dog network. I told you before,
  government organizations can't control information. The
  harder they try, the more violently the information wants
  to get out.
- The following line. Pressassociation saying
  to 2500 articles in dot I S referendum in the past 15
  hours, despite it being a Sunday.
- 19 Q. Let me stop you there. What does dot I S
  20 refer to?
- 21 A. That would be a top level country level

- 1 domain, most likely.
- 2 Q. Do you know what country?
- 3 A. Not offhand, sir.
- 4 Q. Okay. Keep going.
- 5 A. Where was I? Next line. Dog network. You
- 6 apostrophe like the first pin to pop a balloon.
- 7 Following pressassociation saying many other things like
- 8 this.
- 9 Following also, pressassociation, restrict
- 10 supply equal value increases, yes.
- Next line. Dog network. Oh, yeah. OSC went
- 12 haywire digging into IS.
- Q. Let me stop you there. Do you know what OSC
- 14 refers to in these chats?
- 15 A. Open source center.
- 16 Q. Okay. Keep going.
- 17 A. The next line, pressassociation, stating U.S.
- 18 DOD has another tact though, dump billions in free,
- 19 quote, news, quote, content. Next line also
- 20 pressassociation, yes. Or yay. Pardon me. Following
- 21 line, also pressassociation, that apostrophe, something

- 1 we want to mine entirely, B T W.
- Q. Now, when pressassociation says that's something we want to mine entirely by the way, what are they referring to?
- 5 A. My opinion would be they are looking to -6 THE COURT: Sustained. Speculation.
  - Q. Now, what does pressassociation say below that's something we want to mine entirely by the way?
- 9 A. That line it reads, I have an account there,
  10 but changed IPS too quickly.
- 11 Q. And what does dog network say?
- A. The following line, usually it's pretty dull reading, one or two things a day, but it's like 25 for today alone.
- Q. Keep going.

- A. The following from pressassociation. Just FBIs or an analysis included.
- Following dog network. No analysis, too
  early.
- 20 Continuing, dog network. 24 to 48 hours it 21 takes for analysis, if done.

Q. Let me stop you there. What's your understanding of what open source center is?

- A. My understanding is the collection by the intelligence, an operation of the intelligence community that collects information that is available to the outside world, not classified, but it is publicly available though maybe not directly or easily find. It would include things such as news sources, various public records, databases and the like.
- Q. And I want to ask you one more thing. When pressassociation says that's something you want to mine entirely by the way, would you agree that pressassociation's expressed --
- THE COURT: Let him ask the question. One more time.
- Q. Would you agree that pressassociation is
  expressing some interest in something? It's hard to say
  what they're referring to, but --
- 19 A. I think that's a reasonable interpretation,
  20 yes, sir.
- 21 Q. Now, Captain Tooman asked you earlier whether

- there was any evidence in the chats that pressassociation asked PFC Manning to give them anything. And you said, no, there's no evidence of that. Do you still, based on your reading of that, something you want to mine entirely
- A. I couldn't say with any degree -- that doesn't sound like a direct question to me, but it's definitely something of interest.
- 9 Q. Okay. Now, Mr. Johnson, I want to ask you
  10 about the disk utility log. Do you know what a strongbox
  11 is?
- A. Strongbox in this situation refers to an encrypted file we found on Private Manning's computer.
- Q. Now, what is the extension for a strong box?
- 15 A. It was DMG.
- Q. So what's essentially the file, what's the
- 17 file name?

18 A. It would be an Apple disk image.

by the way, do you still feel that way?

- 19 Q. And you said it was encrypted?
- 20 A. Yes, sir.
- 21 Q. Now, were you able to open this strong box?

- 1 A. No, sir.
- Q. Do you recall the date the strong box was
- 3 created?
- A. No, sir. I'd have to refer.
- 5 Q. I'm retrieving prosecution exhibit 125.
- 6 MR. TOOMAN: Ma'am, may I object? Relevance.
- 7 THE COURT: Where are you going with this?
- MR. MORROW: Your Honor, the defense asked
- 9 several questions about what could be recovered from the
- 10 computer. I'm simply referring to a file that the
- 11 forensic examiners couldn't open.
- 12 THE COURT: Overruled.
- 13 BY MR. MORROW:
- 14 Q. I'm handing you the disk utility log,
- prosecution exhibit 125, and I'd like you to find where
- in the disk utility log this strongbox is.
- 17 A. Okay. That would be February 11, 2010.
- 18 Q. And again, you said you could not open this
- 19 file?
- 20 A. Yes, sir.
- 21 Q. Now, when a file is encrypted, are you able to

- 1 tell what's inside the file?
- A. No, sir.
- Q. So you'd have no idea how large this file is?
- A. No, sir. Not at that time.
- 5 Q. Thank you. Handing prosecution exhibit 125
- 6 back to the court reporter.
- 7 Handing 123 back.
- One last question. Were you able to tell,

  based on your examination, whether files were being added

  to the strongbox throughout the course of PFC Manning's?
- 11 A. I cannot tell that files were being added or 12 removed. However, the log indicates that that file had 13 been expanded several times, thus the reason I could not
- 14 determine the file size at the time you asked.
- Q. But you wouldn't be able to tell the size of the files in there anyway?
- 17 A. The internal contents?
- 18 Q. Yes.
- 19 A. No, sir.
- Q. I'm sorry. I should have asked this when I
  had 23 in front of me, but in your opinion were the chat

```
logs with pressassociation complete?
1
                I could not tell, sir.
2
         Α.
 3
         0.
                Were there days missing between 5 March and 18
4
    March?
                Yes, sir.
5
         Α.
                So it wasn't 5 March, 6 March, 7 March, 8
6
         Q.
7
    March?
                      There were some missing days, sir.
8
         Α.
                No.
9
                 MR. MORROW: Thank you. I'm handing
    prosecution exhibit 109 for identification back to the
10
    court reporter and prosecution exhibit 110.
11
12
                 THE COURT: Any further questions?
                 MR. TOOMAN: No, ma'am.
13
14
                 THE COURT: I just have a couple.
15
                 THE WITNESS: Yes, ma'am.
                 THE COURT: On the strongbox, if you can't
16
    tell how big a file is, how can you tell if it gets
17
18
    bigger?
19
                 THE WITNESS: What we're referring to, his
20
    question was the contents of what was put into the
21
    strongbox. The strongbox itself is the container file.
```

```
It's sort of like -- it has a similar function to RARs
1
2
    and zip, but it's an Apple specific in terms of
3
    different, it serves a different purpose. So I can tell
4
    the file size of the DMG itself, but not what's put
    inside. Does that answer your question, ma'am?
5
6
                 THE COURT: Yes. So is this a large file or
    a small file?
7
                 THE WITNESS: It's fairly significant size,
8
    sir, or ma'am.
10
                 THE COURT: All right. Anything based on
    that from either side?
11
12
                 MR. MORROW: No, Your Honor.
                 MR. TOOMAN: Just briefly, Your Honor.
13
14
15
                RECROSS EXAMINATION BY MR. TOOMAN:
16
17
                Mr. Johnson, you were describing the strongbox
         Q.
18
    getting bigger. Would it be fair to say the strongbox is
    kind of like a partition, you're like fencing off an
19
20
    area?
21
         A.
               No, sir, it's not. It's closer to a zip or
```

RAR type file. 1 2 Q. Okay. The space got bigger? 3 Α. Yes, sir. And you don't know what was in there? 4 Q. No, sir. 5 Α. Could have been anything? 6 Q. 7 Α. Could be anything. Could be pictures of PFC Manning? 8 Q. 9 Α. It could be anything. I have no indication of what's in there. 10 Could have been videos? 11 0. Possible. 12 Α. 13 MR. TOOMAN: Okay. Thank you. 14 THE COURT: Temporary or permanent excusal? 15 MR. MORROW: Temporary, Your Honor. 16 THE COURT: Special Agent Johnson, you're 17 temporarily excused. Please don't discuss your testimony 18 with anyone other than the accused or counsel. 19 THE WITNESS: Thank you, ma'am. 20 THE COURT: Just prior to reconvening with 21 this witness I spoke with counsel briefly in RCM 802

I was concerned a little bit with the 1 conference. 2 defense line of questioning regarding PFC Manning was 3 charged with a variety of different things and that there was no evidence the witness had in his report that shows 4 a transfer, and I was concerned and I asked Mr. Coombs if 5 6 the defense was challenging the transfers other than the 7 Farah video in specification 11 of charge 2 as we've already had a plea that established those elements. 8 9 MR. COOMBS: Yes, Your Honor. And in response to that, what we are challenging is the date and 10 11 time period which the government has charged these 12 releases, not that PFC Manning did them or not. So by 13 pleading by exceptions and substitutions we pled to certain dates, which we believe the forensic evidence 14 15 supports, that those were the dates in which PFC Manning gave the information. Unlike what the government has 16 17 charged in the charge sheet which is a much broader date 18 range. 19 THE COURT: All right. Thank you. 20 Now, looking at the time, is this a good time

to have a lunch break?

## **UNOFFICIAL DRAFT - 6/12/13 Morning Session**

	_	
		117
1	MR. FEIN: Yes, ma'am, it is.	
2	THE COURT: How long would we like here?	
3	1330 work for both sides?	
4	MR. FEIN: It does, ma'am.	
5	THE COURT: All right. 1330.	
6	(LUNCH RECESS.)	
7		
8		
9		
10		
11		
12		
13		
14		
15		

## 10:14:15:4:20:13:29:17: America (1) 84:8.17:87:18 33:14;40:4;47:2;53:4; 71:19 articles (1) A 81:10;82:21;105:7 amount (1) 106:17 99:18 **ADM's (1)** Assange (4) able (19) 11:19;12:7,19;13:15 14:3 analysis (6) 19:9,19;22:5,12;25:7; Adrian (1) 55:4,4,7;108:17,18,21 asserted (1) 26:3;27:5;50:14;53:8; 11:12 analyst (1) 77:6 54:13;58:15;64:12;71:12; affairs (1) 93:19 assessment (2) 81:12,14;110:21;111:21; 54:13 analytical (2) 60:4,13 112:8,15 Afghanistan (5) 104:1.14 associate (3) accent (1) 20:5;58:6;59:5;61:5,14 69:4,8;72:4 annotate (2) 43:15 again (27) 9:7;98:21 associated (12) access (4) 5:5;14:17;24:6;30:20; anti-American (1) 11:19;12:7,19;13:12; 57:8,8;104:5,18 46:12;48:15;52:6;54:6; 71:19 14:12;17:8,11;22:20;71:15, accessible (2) 18;86:2;89:18 60:5;69:21;72:4;73:4,20; Apache (3) 104:3.16 74:17;81:5,12;82:9;83:7; 66:18;67:4;97:6 assume (2) accommodate (1) 85:15;97:14;98:3;100:17; apologies (1) 18:21;86:5 54:13 101:7;102:9;104:10,12; 31:11 attach (1) according (1) 111:18 apologize (1) 36:1 6:1 against (2) 31:19 attached (6) account (11) 36:3,19,21;37:1;64:3; 26:20;59:3 apostrophe (2) 5:2;11:18;12:8,9;13:11; agent (5) 107:6,21 75:4 14:11;15:18;16:1;23:10; 7:3;75:13;86:12;100:16; appear (13) attempt (1) 28:7;108:9 115:16 16:3;17:5;19:3;40:9;43:3, 42:4 accounts (1) agents (1) 9,11;44:14;47:8;57:3;72:7, attention (1) 26:14 41:2 8;76:5 63:21 accused (1) ago (1) appeared (5) aunt (1) 115:18 106:11 44:18;45:10;92:16;94:7; 22:18 acquiring (1) agree (17) 95:9 authenticated (1) 7:3 56:4:57:5:65:3.8:67:12: appears (15) 77:3 action (1) 75:17:83:11:86:19:87:17: 13:8:14:10:31:13:34:20: authentication (1) 106:10 91:9,20;94:10;95:13; 39:1,4,15;42:1;44:10,12; 25:9 actions (2) 104:19;105:9;109:12,16 48:1;72:17;75:4;76:2;105:3 authorized (1) 9:5:30:8 ahead (7) appended (1) 25:7 activity (1) 28:10;32:10;38:9;46:10; 32:6 auto (1) 81:9 Apple (4) 50:1;63:18;90:16 26:17 actual (6) 6:14;7:15;110:18;114:2 air (2) available (4) 44:5;80:14;82:13;86:14; 62:2;97:6 application (2) 52:5;82:1;109:5,7 95:4.11 alias (9) 11:13;39:13 aware (1) actually (16) 11:19;12:3,5,21;13:15; applications (2) 93:17 9:7;10:3,4;17:14;18:18; 14:13;15:19,21;18:17 16:19,19 away (1) 21:1;23:9;26:18;28:8;35:8; allegedly (1) appropriate (1) 74:14 41:3;42:9;59:9;64:12; 29:8 79:7 76:18;81:19 B alleviate (1) approve (1) added (2) 96:5 29:2 112:9,11 allocated (11) Approximately (1) back (12) additional (4) 14:5,6;15:7;35:8;41:14; 47:15 11:20;22:17,18,19;24:20; 15:19;34:20;50:20;64:21 53:10;71:2,6;88:2;89:3; **April** (15) 29:3;39:8;41:3;76:14; address (19) 93:6 32:20;64:8,9;72:21;73:4; 112:6,7;113:10 5:10;45:3,4,12;47:10; allow (1) balloon (1) 75:19;76:1,3,6,7,9;97:7,16; 54:8;90:10;92:15,16;93:18; 21:15 98:2:100:4 107:6 94:8,11,14,18;95:1,4,8,10, almost (2) archive (2) base64 (5) 11 99:12;105:1 43:18;64:18 41:16,19;42:3,12,20 addresses (5) alone (1) archiving (2) based (6) 22:9,16;47:8,13,15 108:14 43:19;64:19 24:7;25:9;53:6;110:3; **ADM (7)** area (4) 112:9;114:10 along (2) 11:5.6.7.8.13.16:16:15 55:14;56:18 35:17;54:17;61:11; basically (5) administrative (1) Alpha (5) 114:20 24:10;68:14;104:20,20; 54:10 8:6,8,21;10:10,14 around (3) 106:3 admit (9) alter (1) 35:17;58:11;65:2 Bay (1) 10:10;15:1;20:9;29:12; 18:3 arrest (1) 60:4 33:10;39:21;46:19;52:20; Although (1) 61:10 begin (1) 105:12 81:4 arrived (3) 101:11 admitted (11)

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